

Title (en)
METHOD FOR THE PRODUCTION OF (METH)ACROLEIN AND/OR (METH)ACRYLIC ACID BY HETEROGENEOUSLY-CATALYSED PARTIAL OXIDATION OF C3 AND/OR C4 PRECURSOR COMPOUNDS IN A REACTOR WITH HEAT-TRANSFER PLATE MODULES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON (METH)ACROLEIN UND/ODER (METH)ACRYLS ÜRE DURCH HETEROGEN KATALYSIERTE PARTIALOXIDATION VON C3- UND/ODER C4-VORLÄUFERVERBINDUNGEN IN EINEM REAKTOR MIT THERMOBLECHPLATTENMODULEN

Title (fr)
PROCEDE DE PRODUCTION D'ALDEHYDE (METH)ACRYLIQUE ET/OU D'ACIDE (METH)ACRYLIQUE, PAR OXYDATION PARTIELLE EN CATALYSE HETEROGENE DE COMPOSES PRECURSEURS COMPORTANT 3 ET/OU 4 ATOMES DE CARBONE, DANS UN REACTEUR COMPRENANT DES MODULES CONSTITUES DE PLAQUES DE TOLE THERMIQUES

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Application
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Abstract (en)
[origin: WO2005009609A1] A method for the partial gas-phase oxidation of C3 and/or C4 precursor compounds to give (meth)acrolein and/or (meth)acrylic acid in the presence of a heterogeneous particulate catalyst in a reactor is disclosed, having several parallelepiped heat-transfer plate modules (1), each comprising two or more rectangular parallel heat-transfer sheets (2), arranged to leave a gap (3) therebetween which may be filled with the heterogeneous particulate catalyst and through which the fluid reaction mixture flows, whereby the heat of reaction is removed by a heat transfer agent, flowing through the heat transfer plates (2), which is thus partly evaporated and a predominantly cylindrical shell (4, 15, 16), completely enclosing the heat transfer plate module and relieving the pressure thereon which has itself a cylindrical sleeve (4) and caps (15, 16) sealing the ends thereof, the longitudinal axis of which is arranged parallel to the plane of the heat-transfer plates (2) and one or more sealing elements (7, 23), arranged such that the fluid reaction mixture only flows through the gaps (3) when not flowing in the reactor inner chamber as defined by the caps (15, 16).

IPC 8 full level
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